



# Heart Failure: Crossing the Translational Divide

January 14–18, 2018 | Keystone Resort | Keystone, Colorado | USA

## Scientific Organizers:

**Yibin Wang**, University of California, Los Angeles, USA

**Joseph A. Hill**, University of Texas Southwestern Medical Center, USA

**Carolyn Lam**, Duke-NUS Medical School, Singapore

*Heart failure is a major human disease that afflicts millions of people worldwide. Intensive research in the past decade has yielded many exciting new mechanistic insights into the pathogenesis of heart failure, but progress toward successful therapies to prevent, halt and reverse heart failure has been painfully slow. The overall goal of this Keystone Symposia conference is to focus on heart failure and highlight the scientific advances in basic discovery and early-phase therapeutic development in this fast-moving field. The symposium will provide the field with an opportunity for robust discussion about the major issues crossing the translational divide from basic discovery to therapies.*

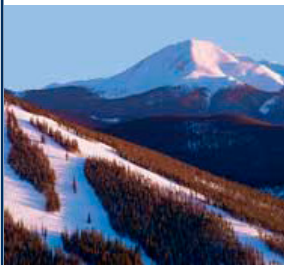
## Session Topics:

- HFrEF: Ischemic Heart Disease (I/R Injury and Cell Death)
- Inflammation (Non-Ischemic) HFrEF
- HFrEF: Hypertensive Heart Disease (Hypertrophy, Fibrosis)
- Workshop 1: Big Data and Precision Medicine for Heart Failure
- PH and RV Failure
- HFrEF and Metabolism
- Workshop 2: Pharma for HF, How NOT to Get Lost in Translation
- HFrEF: Genetics and Epigenetics
- HFpEF (Mechanisms and Therapy)
- HFrEF (Cellular and Molecular Therapy)

**Scholarship Application & Discounted Abstract Deadline: September 21, 2017**

**Abstract Deadline: October 19, 2017**

**Discounted Registration Deadline: November 20, 2017**



Note: Scholarships are available for graduate students and postdoctoral fellows and are awarded based on the abstract submitted. Submitting an abstract is an excellent opportunity to gain exposure for your work. Abstracts submitted by the abstract deadline will also be considered for short talks on the program.

Meeting Hashtag: #KShf

[www.keystonesymposia.org/18A1](http://www.keystonesymposia.org/18A1)

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# KEYSTONE SYMPOSIA

on Molecular and Cellular Biology

## Heart Failure: Crossing the Translational Divide (A1)

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### SUNDAY, JANUARY 14

#### Arrival and Registration

### MONDAY, JANUARY 15

#### Welcome and Keynote Address

**David C. Page**, Whitehead Institute for Biomedical Research, USA  
*Sex and Disease: Do Males and Females Read their Genomes Differently?*

#### HFrEF: Ischemic Heart Disease (I/R Injury and Cell Death)

**Laura Mauri**, Brigham and Women's Hospital, USA  
*What Ischemic HFrEF Looks like Clinically and What I Wish I Had in My Toolbox*

**Richard N. Kitsis**, Albert Einstein College of Medicine, USA  
*Novel Mechanisms of Cell Death*

**Junichi Sadoshima**, Rutgers New Jersey Medical School, USA  
*Autosis Mediates Myocardial Cell Death during Ischemia/Reperfusion*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 1: Does an X or Y Make a Difference for the Heart?

\***Joseph A. Hill**, University of Texas Southwestern Medical Center, USA

**David C. Page**, Whitehead Institute for Biomedical Research, USA  
*Translate Mechanism to Practice: for Sex Differences in HF*

**Mansoureh Eghbali**, University of California, Los Angeles, USA  
*Sex Hormone or Sex Chromosome: The Real Culprit in Cardiac Injury and Dysfunction*

\***Vera Regitz-Zagrosek**, Charité - University Medicine Berlin, Germany  
*Translational Aspects of Sex Differences in Myocardial Ischemia and Hypertrophy*

**Carolyn Lam**, Duke-NUS Medical School, Singapore  
*Sex Differences in HF-Clinical Trial*

#### Inflammation (Non-Ischemic) HFrEF

**Douglas L. Mann**, Washington University School of Medicine, USA  
*What Inflammatory Cardiomyopathy Looks like Clinically and What I Wish I Had in My Toolbox*

**Peter Liu†**, Toronto Hospital, Canada  
*Talk Title to be Announced*

**Hongliang Li**, Wuhan University, China  
*Novel Role of Innate Inflammatory Genes in Heart Disease*

#### Short Talk Chosen from Abstracts

#### Poster Session 1

### TUESDAY, JANUARY 16

#### HFrEF: Hypertensive Heart Disease (Hypertrophy, Fibrosis)

**Joseph A. Hill**, University of Texas Southwestern Medical Center, USA  
*What Hypertensive HFrEF Looks Like and What I had in my Toolbox*

**Jeffery D. Molkenin**, Cincinnati Children's Hospital Medical Center, USA

*Fibroblast Dynamics in the MI Injured Heart*

**Mark E. Anderson**, Johns Hopkins University School of Medicine, USA

*CaMKII as a Therapeutic Target in Heart Failure and Arrhythmias*

**Timothy A. McKinsey**, University of Colorado Denver, USA  
*Epigenetic Regulation of Heart Failure*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 2: Big Data and Precision Medicine for Heart Failure

**Peipei Ping**, University of California, Los Angeles, USA  
*NHLBI Big Data to Knowledge*

**Elizabeth M. McNally**, Northwestern University, USA  
*Genomic Solutions to Precision Medicine*

**Daniel P. Kelly**, University of Pennsylvania, USA  
*Integrated Profiling Approaches to Delineating the Metabolic Origins of Heart Failure*

#### PH and RV Failure

**Mardi I. Gomberg-Maitland**, Inova Heart and Vascular Institute, USA  
*Clinical RVF and PH: Understanding Mechanism, Approach, and Lesions Learned*

**Stephan Rosenkranz**, Klinik III für Innere Medizin, Germany  
*Novel Targets in Pulmonary Vascular Disease and RV Dysfunction*

**Mansoureh Eghbali**, University of California, Los Angeles, USA  
*Role of Oxidized Lipids in PH and RV Failure*

#### Short Talk Chosen from Abstracts

#### Poster Session 2

### WEDNESDAY, JANUARY 17

#### HFrEF and Metabolism

**E. Dale Abel**, University of Iowa, Carver College of Medicine, USA  
*Mitochondrial Metabolism, Heart Failure and Cardiac Recovery*

**Peipei Ping**, University of California, Los Angeles, USA  
*Mitochondrial Proteome in Heart Failure*

**Daniel P. Kelly**, University of Pennsylvania, USA  
*Mitochondrial Remodeling in Heart Failure*

**Rong Tian**, University of Washington, USA  
*Mitochondrial Metabolism in Heart Failure*

#### Short Talk(s) Chosen from Abstracts

#### Workshop 3: Pharma for HF, How NOT to Get Lost in Translation

**Anthony J. Muslin**, Sanofi, USA

#### HFrEF: Genetics and Epigenetics

**Elizabeth M. McNally**, Northwestern University, USA  
*How Genetics Informs the Care of HF*

**Christine E. Seidman**, Harvard Medical School, USA  
*Genetic Contribution to HF*

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**Thomas Thum**, Medical School Hannover, Germany  
*Noncoding RNAs and Other Therapeutic Approaches in Cardiac Remodeling*

**Short Talk Chosen from Abstracts**

### Poster Session 3

### THURSDAY, JANUARY 18

#### Keynote Address

**Daria Mochly-Rosen**, Stanford University, USA  
*Cardiac Disease: Crossing the Translational Divide*

#### HFpEF (Mechanisms and Therapy)

**David A. Kass**, Johns Hopkins Hospital, USA  
*Dissecting Mechanisms of HFpEF - A Multiscale Approach*

**Carolyn Lam**, Duke-NUS Medical School, Singapore  
*HFpEF Exists -- We Just Don't Know What to Call It*

**Wolfgang A. Linke**, University of Munster, Germany  
*Targeting Cardiomyocyte Structure and Function in HFpEF*

**Short Talk(s) Chosen from Abstracts**

#### HFrEF (Cellular and Molecular Therapy)

**Roger J. Hajjar**, Mount Sinai School of Medicine, USA  
*Gene-Based Therapy*

**Hesham A. Sadek**, University of Texas Southwestern Medical Center, USA

*Rethinking the Effect of Hypoxia on Cardiomyocytes*

**Joseph C. Wu**, Stanford University School of Medicine, USA  
*Genomics and Stem Cells for Precision Cardiovascular Medicine*

#### Meeting Wrap-Up: Outcomes and Future Directions (Organizers)

### FRIDAY, JANUARY 19

#### Departure